

Notice of Allowability	Application No.	Applicant(s)
	10/767,292	CONG ET AL.
	Examiner	Art Unit
	Mohsen Ahmadi	2812
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	olication. If not included will be mailed in due course. THIS
1. X This communication is responsive to <u>02/20/2007</u> .		
2. X The allowed claim(s) is/are <u>1-30</u> .	•	•
<ul> <li>3. Acknowledgment is made of a claim for foreign priority ur</li> <li>a) All b) Some* c) None of the:</li> <li>1. Certified copies of the priority documents have</li> <li>2. Certified copies of the priority documents have</li> <li>3. Copies of the certified copies of the priority do</li> </ul>	been received. been received in Application No	
International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give		
5. CORRECTED DRAWINGS ( as "replacement sheets") mus	st be submitted.	
(a) [ including changes required by the Notice of Draftspers	son's Patent Drawing Review ( PTO-	948) attached
1) 🗌 hereto or 2) 📗 to Paper No./Mail Date		
(b)  including changes required by the attached Examiner' Paper No./Mail Date	s Amendment / Comment or in the C	Office action of
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t		
<ol> <li>DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT</li> </ol>	sit of BIOLOGICAL MATERIAL r FOR THE DEPOSIT OF BIOLOGIC	nust be submitted. Note the AL MATERIAL.
	•	
Attachment(s)	E Making of Informal D	nama Ameliantian
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Dotice of Draftperson's Patent Drawing Review (PTO-948)</li> </ol>	<ol> <li>Notice of Informal P</li> <li>Interview Summary</li> </ol>	, ,
	Paper No./Mail Dat	e
Information Disclosure Statements (PTO/SB/08),     Paper No./Mail Date	7. 🗌 Examiner's Amendr	nent/Comment
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛛 Examiner's Stateme	ent of Reasons for Allowance
or Diological Material	9. 🗆 Other 🥥	1////
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	MIC SUPERVI	CHAEL LEBENTRITT SORY PATENT EXAMINER

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Allowable Subject Matter

Claims 1-30 are allowed.

The following is an examiner's statement of reasons for allowance: The closest prior art

known to the Examiner is listed on the PTO 892 forms of record. With respect to claims

1, 9 and 20, the cited prior art does not anticipate or make obvious, inter alia, patterning

the intermetal dielectric layer and hard mask layers, and CF4 / N2 / O2 based reactive

ion etching to form via openings extending through the intermetal dielectric layer and

one of the hard mask layers, forming a layer of via-fill material of bottom anti-reflective

coating with photoresist over the intermetal dielectric layer the via-fill material filling the

via openings, pattering the via-fill material, intermetal dielectric layer and hard mask

layers and etching to form trench openings using a reactive ion etch and planarizing the

excess copper back, thus forming inlaid copper in the trench and via openings for

contact vias and interconnect wiring.

Any comments considered necessary by applicant must be submitted no later

than the payment of the issue fee and, to avoid processing delays, should preferably

accompany the issue fee. Such submissions should be clearly labeled "Comments on

Statement of Reasons for Allowance."

Conclusion

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mohsen Ahmadi whose telephone number is 1-571-272-5062. The examiner can normally be reached on Mon-Fri 8:00am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Lebentritt can be reached on 1-571-272-1873. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

MA //l/4 03/13/2007

MICHAEL LEBENTRITT SUPERVISORY PATENT EXAMINER